

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/576/634  
Source: IFWP  
Date Processed by STIC: 5-1-06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,634

TIME: 09:53:06

Input Set : A:\3265.1011-004seqlist.txt

Output Set : N:\CRF4\05012006\J576634.raw

```

4 <110> APPLICANT: Sanders, Mitchell C.
5      Colpas, Gerard J.
6      Ellis-Busby, Diane L.
7      Havard, Jennifer M.
9 <120> TITLE OF INVENTION: Colorimetric Substrates, Colorimetric
10      Sensors, and Methods of Use
13 <130> FILE REFERENCE: 3265.1011-004
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/576,634
C--> 15 <141> CURRENT FILING DATE: 2006-04-21
15 <150> PRIOR APPLICATION NUMBER: PCT/US2004/036469
16 <151> PRIOR FILING DATE: 2004-11-03
18 <150> PRIOR APPLICATION NUMBER: 60/516,688
19 <151> PRIOR FILING DATE: 2003-11-03
21 <150> PRIOR APPLICATION NUMBER: 60/578,502
22 <151> PRIOR FILING DATE: 2004-06-09
24 <160> NUMBER OF SEQ ID NOS: 41
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 37
30 <212> TYPE: PRT
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic Peptide Sequence
W--> 36 <221> NAME/KEY: VARIANT
37 <222> LOCATION: 22
38 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 40 <400> 1
41 Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu
42 1          5          10          15
W--> 43 Phe Lys Arg Ile Val Xaa Arg Ile Lys Asp Phe Leu Arg Asn Leu Val
44          20          25          30
45 Pro Arg Thr Glu Ser
46          35
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 12
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Synthetic Peptide Sequence
57 <400> SEQUENCE: 2
58 Lys Ala Ala His Lys Ser Ala Leu Lys Ser Ala Glu
59 1          5          10
62 <210> SEQ ID NO: 3

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Input Set : A:\3265.1011-004seqlist.txt

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63 <211> LENGTH: 16
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Synthetic Peptide Sequence
70 <400> SEQUENCE: 3
71 Lys Lys Ala Ser Glu Ala Ala His Lys Ser Ala Leu Lys Ser Ala Glu
72 1 5 10 15
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 18
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Synthetic Peptide Sequence
83 <400> SEQUENCE: 4
84 Cys His His His Ala Ser Glu Ala Ala His Lys Ser Ala Leu Lys Ser
85 1 5 10 15
86 Ala Glu
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 14
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Synthetic Peptide Sequence
98 <400> SEQUENCE: 5
99 Lys His Leu Gly Gly Gly Ala Leu Gly Gly Gly Ala Lys Glu
100 1 5 10
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 11
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Synthetic Peptide Sequence
111 <400> SEQUENCE: 6
112 Lys His Leu Gly Gly Gly Gly Ala Lys Glu
113 1 5 10
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 11
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic Peptide Sequence
124 <400> SEQUENCE: 7
125 Ala Cys Cys Asp Glu Tyr Leu Gln Thr Lys Glu
126 1 5 10
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 11
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial Sequence

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134 <220> FEATURE:  
135 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
137 <400> SEQUENCE: 8  
138 Ala Asp Thr Val Glu Pro Thr Gly Ala Lys Glu  
139 1 5 10  
142 <210> SEQ ID NO: 9  
143 <211> LENGTH: 13  
144 <212> TYPE: PRT  
145 <213> ORGANISM: Artificial Sequence  
147 <220> FEATURE:  
148 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
150 <400> SEQUENCE: 9  
151 Lys Leu Pro His Lys Leu Ser Trp Ser Ala Asp Asn Pro  
152 1 5 10  
155 <210> SEQ ID NO: 10  
156 <211> LENGTH: 14  
157 <212> TYPE: PRT  
158 <213> ORGANISM: Artificial Sequence  
160 <220> FEATURE:  
161 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
163 <400> SEQUENCE: 10  
164 Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro  
165 1 5 10  
168 <210> SEQ ID NO: 11  
169 <211> LENGTH: 9  
170 <212> TYPE: PRT  
171 <213> ORGANISM: Artificial Sequence  
173 <220> FEATURE:  
174 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
176 <400> SEQUENCE: 11  
177 Asn Met Leu Ser Glu Val Glu Arg Glu  
178 1 5  
181 <210> SEQ ID NO: 12  
182 <211> LENGTH: 14  
183 <212> TYPE: PRT  
184 <213> ORGANISM: Artificial Sequence  
186 <220> FEATURE:  
187 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
189 <400> SEQUENCE: 12  
190 Lys Gln Asn Met Leu Ser Glu Val Glu Arg Ala Asp Thr Glu  
191 1 5 10  
194 <210> SEQ ID NO: 13  
195 <211> LENGTH: 12  
196 <212> TYPE: PRT  
197 <213> ORGANISM: Artificial Sequence  
199 <220> FEATURE:  
200 <223> OTHER INFORMATION: Synthetic Peptide Sequence  
202 <400> SEQUENCE: 13  
203 Asn Glu Ala Ile Gln Glu Asp Gln Val Gln Tyr Glu

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```

204 1 5 10
207 <210> SEQ ID NO: 14
208 <211> LENGTH: 12
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Synthetic Peptide Sequence
215 <400> SEQUENCE: 14
216 Glu Thr Lys Val Glu Glu Asn Glu Ala Ile Gln Lys
217 1 5 10
220 <210> SEQ ID NO: 15
221 <211> LENGTH: 15
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic Peptide Sequence
228 <400> SEQUENCE: 15
229 Asp Ser Arg Pro Val Arg Arg Arg Arg Arg Pro Arg Val Ser Lys
230 1 5 10 15
233 <210> SEQ ID NO: 16
234 <211> LENGTH: 11
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Synthetic Peptide Sequence
241 <400> SEQUENCE: 16
242 Lys Val Ser Arg Arg Arg Arg Arg Gly Gly Asp
243 1 5 10
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 15
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Synthetic Peptide Sequence
254 <400> SEQUENCE: 17
255 Lys Lys Ala Ser Glu Val Ser Arg Arg Arg Arg Arg Gly Gly Lys
256 1 5 10 15
259 <210> SEQ ID NO: 18
260 <211> LENGTH: 17
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic Peptide Sequence
267 <400> SEQUENCE: 18
268 Cys His His His Ala Ser Glu Val Ser Arg Arg Arg Arg Arg Gly Gly
269 1 5 10 15
270 Lys
274 <210> SEQ ID NO: 19
275 <211> LENGTH: 14

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Input Set : A:\3265.1011-004seqlist.txt

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276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Synthetic Peptide Sequence
282 <400> SEQUENCE: 19
283 Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Glu
284 1 5 10
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 14
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Synthetic Peptide Sequence
295 <400> SEQUENCE: 20
296 Lys Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Glu
297 1 5 10
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 13
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthetic Peptide Sequence
308 <400> SEQUENCE: 21
309 Glu Ala Ala Gly Ala Met Phe Leu Glu Ala Ile Pro Lys
310 1 5 10
313 <210> SEQ ID NO: 22
314 <211> LENGTH: 15
315 <212> TYPE: PRT
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Synthetic Peptide Sequence
321 <400> SEQUENCE: 22
322 Glu Gly Ala Met Phe Leu Glu Ala Ile Pro Met Ser Ile Pro Lys
323 1 5 10 15
326 <210> SEQ ID NO: 23
327 <211> LENGTH: 22
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Synthetic Peptide Sequence
334 <400> SEQUENCE: 23
335 Cys Gly Ala Met Phe Leu Glu Ala Ile Pro Met Ser Ile Pro Ala Ala
336 1 5 10 15
337 Ala His His His His His
338 20
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 25
343 <212> TYPE: PRT
344 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/576,634

DATE: 05/01/2006  
TIME: 09:53:07

Input Set : A:\3265.1011-004seqlist.txt  
Output Set: N:\CRF4\05012006\J576634.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 22

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/576,634

DATE: 05/01/2006

TIME: 09:53:07

Input Set : A:\3265.1011-004seqlist.txt

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:36 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:40 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16